# **Description:**

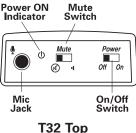
Maximize a student's ability to listen with the Personal FM System 350 RCH from Williams Sound. Personal FM systems deliver the teacher's message directly to the student's headphones by way of FM signal, eliminating background noise and other distractions. It's perfect for classrooms, job training, consultation and more. Portable, no wire, no hassle. Each PFM 350 RCH system has a range of up to 150 feet, and will operate up to 60 hours at one time. Versatile 3.5 mm jack allow for a variety of earphone and headphone options, or equip it with a neckloop and it is compatible with most telecoil-equipped hearing aids. The PFM 350 RCH includes an R31 receiver, which features a sensitive environmental microphone: this gives the listener more flexibility on what they want to hear. By turning on the environmental mic, they can listen to a nearby classmate speak more clearly. Each PFM 350 RCH system includes a CHG 200A drop-in style charger for charging up to (4) AA BAT 026 batteries (included).

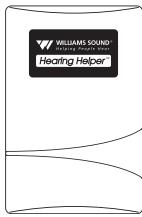
#### Applications:

#### Classrooms • Job Consultation • Job Training • Tours • Group Meetings

# **PFM T32 FM Transmitter:**

Dimensions:	3-5/8" L x 2-3/8" W x 7/8" H (92.1 mm x 60.3 mm x 22.2 mm)	
Weight:	4.4 oz (125 g) with battery	
Color:	Royal blue, shatter-resistant polypropylene	
Battery Type:	Two (2) AA 1.5 V non-rechargeable Alkaline batteries (BAT 001),	
	70 mA nominal current drain, 30 hours approx. life	
	(OR) Two (2) AA 1.5 V NiMH rechargeable batteries (BAT 026), 70	
	mA nominal current drain, 20 hours per charge approx., recharges	
	in 14–16 hours, uses CHG 200 or CHG 1600 Charger	
Operating Freq's:	Selectable, 16 channels, 72.1 – 75.9 MHz*, internal rotary switch	
Stability:	± .005%, frequency synthesized, crystal reference, PLL	
Modulation:	Wide-band FM, 75 kHz pk, 75 µS pre-emphasis	
RF Output:	8000 μV/m at 30 m, max., 40 mW typical	
Freq Response:	200 to 10 kHz, + 3 dB at 1% max. THD	
Signal-to-Noise Ratio:	55 - 60 dB, with R31 or R32 Receiver	
Microphone Gain Control:	45 dB maximum, 18 dB minimum	
Transmit Antenna:	Integral with 39" microphone cord	
Microphone:	Electret type, 39" cord, 3.5 mm mono phone plug	
Controls:	On/Off switch, slide-type; Microphone Mute Switch, slide-type;	
	Compression Selector 1:1 or 2:1 with internal selectable jumper	
Mic Connector:	3.5 mm mono phone jack	
Compatible Receivers:	PPA R35, PFM R31, PFM R32	
Approvals:	FCC, Industry Canada, RoHS, WEEE	
Warranty:	5 years, parts and labor (90 days on accessories)	
Note:	FCC regulations, section 15.21, requires the user to comply with	
	the rules of transmitter operation. Any changes or modifica-	
	tions made by the user not expressly approved for compliance	
	may result in the loss of all privileges and authority to operate	
	the equipment.	





\*DISCLAIMER: FCC RULES LIMIT USE OF THIS EQUIPMENT TO AUDITORY ASSISTANCE FOR THE HANDICAPPED.

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

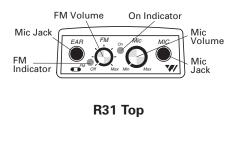
T32 Front

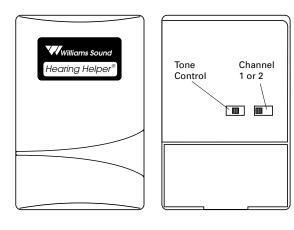


# PFM R31 FM Receiver:

Dimensions:	3-5/8" L x 2-3/8" W x 7/8" H (92.1 mm x 60.3 mm x 22.2 mm)	
Weight:	4.6 oz (130 g) with batteries	
Color:	Royal blue, shatter-resistant polypropylene	
Battery Type:	Two (2) AA 1.5 V non-rechargeable Alkaline batteries (BAT 001), 14 mA nom. current drain, 80	
	hours approx. life	
	(OR) Two (2) AA 1.5 V NiMH rechargeable batteries (BAT 026), 14 mA nominal current drain, 50	
	hours per charge approx., recharges in 14–16 hours, uses CHG 200 Charger	
FCC ID:	CNM R31	
Operating Freq's:	Pre-tuned, field–tuneable, 72 MHz - 76 MHz*.	
	Pre-set channels are E (72.9 MHz) and G (75.7 MHz).	
FM Deviation:	Wide-band, 75 kHz, 75 µS de-emphasis	
AFC Range:	± 120 kHz	
Sensitivity:	4 $\mu$ V at 12 dB Sinad with squelch defeated,	
	squelches at 10 μV for min. 50 dB S/N ratio	
Freq Response:	100 to 10 kHz, + 3 dB	
Signal-to-Noise Ratio:	50 dB at 10 uV	
Receive Antenna:	Integral with earphone cord	
Audio Output:	35 mW, max. at 16 $\Omega$	
Output Connector:	3.5 mm mono phone jack	
Squelch:	Set to turn off audio under weak or no signal condition	
Carrier Detect Ind:	Red LED, turns on in the presence of a carrier	
Controls:		
Volume:	Rotary, On/Off/Volume	
Tone:	3-way slide switch; Lo: flat response (20 Hz), Mid: -3 dB at 235 Hz, Hi: -3 dB at 730 Hz	
Channel:	2-way slide switch; Ch 1 = 72.9 MHz, Ch 2 = 75.7 MHz	
Indicators:	On/Off and FM	
Mic Connector:	3.5 mm mono phone jack, supplies positive DC for Williams Sound electret mics	
Microphone:	Plug mount electret, omnidirectional, with windscreen, 3.5 mm mono phone plug (MIC 014)	
Mic Volume:	Rotary control	
Note:	Specifications are electrical performance	
Warranty:	5 years, parts and labor (90 days on accessories)	

\*DISCLAIMER: FCC RULES LIMIT USE OF THIS EQUIPMENT TO AUDITORY ASSISTANCE FOR THE HANDICAPPED.





**R31 Front** 

R31 Back

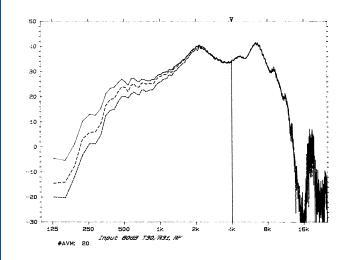
NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!



**M** 

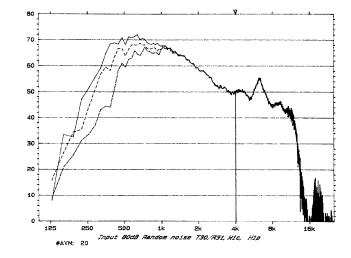
# **Acoustic Specifications:**

### ANSI 2.44 Test



# FM Response (PFM R31)

Input:	80 dB random noise			
Device:	KEMAR mannequin with BTK 3550 tester			
Y:	80.0 dB 80 db	Main Y:	34.1 dB	
X:	100 Hz + 8 OCT LOG	Main X:	4 kHz	



#### **Environmental Mic Response (PFM R31)**

Input:	80 dB random noise		
Device:	KEMAR mannequin with BTK 3550 tester		
Y:	80.0 dB 80 db	Main Y:	50.2 dB
X:	100 Hz + 8 OCT LOG	Main X:	4 kHz

# ANSI S3.22–1987 Test

#### FM Response (PFM R31)

Reference Test Gain:

Total Harmonic Dist:

Response Limit:

Minimum Low Cut (Tone Set to	Low)	Maximum Low Cut (To
Max. SSPL90:	135.8 dB at 500 Hz	Max. SSPL90:
HF Avg. SSPL90:	127.1 dB	HF Avg. SSPL90:
HF Avg. Full On Gain:	37.7 dB at 60 dB in	HF Avg. Full On Gain:
Reference Test Gain:	38.1 dB	Reference Test Gain:
Response Limit:	80.1 dB	
	F1=200 Hz, F2=8 kHz	
Total Harmonic Dist:	3.6 % at 500 Hz	Total Harmonic Dist:
	3.9 % at 800 Hz	
	2.2 % at 1600 Hz	_
Medium Low Cut (Tone Set to N	1id)	Environmental Mi
Max. SSPL90:	135.5 dB at 600 Hz	No Tone Modification
HF Avg. SSPL90:	127.1 dB	Max. SSPL90:
HF Avg. Full On Gain:	36.8 dB at 60 dB in	HF Avg. SSPL90:

37.3 dB

79.4 dB

F1=200 Hz, F2=8 kHz

3.4 % at 500 Hz 3.4 % at 800 Hz 2.2 % at 1600 Hz

# Fone Set to Hi)

Max. SSPL90:	133.5 dB at 1000 Hz
HF Avg. SSPL90:	127.0 dB
HF Avg. Full On Gain:	35.4 dB at 60 dB in
Reference Test Gain:	35.8 dB
Response Limit:	78.01 dB
	F1=200 Hz, F2=8 kHz
Total Harmonic Dist:	1.1 % at 500 Hz
	2.7 % at 800 Hz
	2.1 % at 1600 Hz

### lic Response (PFM R31)

No Tone Modification	
Max. SSPL90:	134.8 dB at 500 Hz
HF Avg. SSPL90:	126.4 dB
HF Avg. Full On Gain:	40.9 dB at 60 dB in
Reference Test Gain:	40.8 dB
Response Limit:	81.1 dB
	F1=200 Hz, F2=8 kHz
Total Harmonic Dist:	1.1 % at 500 Hz
	1.1 % at 800 Hz
	0.3 % at 1600 Hz

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!





### **Bid Specs:**

Not Currently Available

## **Contact:**

#### **United States**

Williams Sound Corp. 10321 W. 70th Street Eden Prairie, MN 55344-3446 Ph: 800-328-6190 / 952-943-2252 / FAX: 952-943-2174 Email: info@williamssound.com Web: www.williamssound.com

#### Canada

Thorvin Electronics 2861 Sherwood Heights Dr. Units 36-37 Oakville, ON L6J-7K1 Canada Ph: 800-323-6634 / 905-829-3040 / FAX: 905-829-4196 Web: www.thorvinelectronics.com

#### Asia, Australia, Latin America, Middle East, South Africa

International Sales Department Williams Sound Corp. 10321 W. 70th Street Eden Prairie, MN 55344 USA Phone: +1 952 224 7791 Fax: +1 952 943 2174 Email: info@williamssound.com Web: www.williamssound.com

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